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L7	743965	rout$3	US-PGPUB; USPAT	OR	ON	2007/03/16 21:03
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L9	171391	7 with 8	US-PGPUB; USPAT	OR	ON	2007/03/16 21:05
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L12	1944	9 and 11	US-PGPUB; USPAT	OR	ON	2007/03/16 21:05
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L14	13301	protocol same 9	US-PGPUB; USPAT	OR	ON	2007/03/16 21:05
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L16	3622	nortel.as.	US-PGPUB; USPAT	OR	ON	2007/03/16 21:06
L17	681	15 not 16	US-PGPUB; USPAT	OR	ON	2007/03/16 21:06
L18	17110	routing with table$2	US-PGPUB; USPAT	OR	ON	2007/03/16 21:06
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L20	5344	forwarding with table	US-PGPUB; USPAT	OR	ON	2007/03/16 21:06
L21	91	19 and 20	US-PGPUB; USPAT	OR	ON	2007/03/16 21:07

L22	102492	interface.clm.	US-PGPUB	OR	ON	2007/03/16 21:07
L23	15261	routing.clm.	US-PGPUB	OR	ON	2007/03/16 21:08
L24	4232	22 and 23	US-PGPUB	OR	ON	2007/03/16 21:08
L25	77	"routing processor".clm.	US-PGPUB	OR	ON	2007/03/16 21:08
L26	31	24 and 25	US-PGPUB	OR	ON	2007/03/16 21:08
L27	5	"routing table manager".clm.	US-PGPUB	OR	ON	2007/03/16 21:08
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L29	183134	rout$3	EPO; JPO; DERWENT	OR	ON	2007/03/16 21:08
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L31	30758	29 with 30	EPO; JPO; DERWENT	OR	ON	2007/03/16 21:09
L32	2444	routing with protocol	EPO; JPO; DERWENT	OR	ON	2007/03/16 21:09
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1 A preservation-based multicast (RBM) routing protocol for mobile networks: initial route construction phase
M. Scott Corson, Stephen G. Batsell
December 1995 **Wireless Networks**, Volume 1 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(2.06 MB)   Additional Information: full citation, abstract, references, citings

> We propose a combined multicast routing, resource reservation and admission control protocol, termed Reservation-Based Multicast (RBM), that borrows the "Rendez-vous Point" or "Core" concept from multicast routing algorithms proposed for the Internet, but which is intended for operation in mobile networks and routes hierarchically-encoded data streams based on user-specified fidelity requirements, real-time delivery thresholds and prevailing network bandwidth constra ...

2 High speed routing in a parallel processing environment: a simulation study
P. W. Dowd, M. Carrato
April 1991 **Proceedings of the 24th annual symposium on Simulation ANSS '91**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(1.04 MB)   Additional Information: full citation, references, citings, index terms

3 Stability issues in OSPF routing
Anindya Basu, Jon Riecke
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(208.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We study the stability of the OSPF protocol under steady state and perturbed conditions. We look at three indicators of stability, namely, (a) network convergence times, (b) routing load on processors, and (c) the number of route flaps. We study these statistics under three different scenarios: (a) on networks that deploy OSPF with TE extensions, (b) on networks that use subsecond HELLO timers, and (c) on networks that use alternative strategies for refreshing link-state information. Our results ...

4 Space-efficient routing in vertex-symmetric networks (extended abstract)
Friedhelm Meyer auf der Heide, Christian Scheideler
July 1995 **Proceedings of the seventh annual ACM symposium on Parallel algorithms**

and architectures SPAA '95

Publisher: ACM Press

Full text available: pdf(958.15 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

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5   <u>Internet routing</u>

T. Narten

August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols SIGCOMM '89**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Comprising an estimated 60,000 hosts, the DARPA Internet is the largest existing internet. This paper traces the routing information protocols used by Internet gateways to build routing tables that define the paths datagrams traverse as they travel between end systems. We articulate the weaknesses and limitations of the most commonly used routing protocols, including RIP, GGP, and HELLO and examine how the protocols interact with each other and with EGP. Finally, we trace the evolution of r ...

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6   <u>Connection-based communication in dynamic networks</u>

Amir Herzberg

October 1992 **Proceedings of the eleventh annual ACM symposium on Principles of distributed computing PODC '92**

Publisher: ACM Press

Full text available: pdf(1.02 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

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7   <u>A 50-Gb/s IP router</u>

Craig Partridge, Philip P. Carvey, Ed Burgess, Isidro Castineyra, Tom Clarke, Lise Graham, Michael Hathaway, Phil Herman, Allen King, Steve Kohalmi, Tracy Ma, John Mcallen, Trevor Mendez, Walter C. Milliken, Ronald Pettyjohn, John Rokosz, Joshua Seeger, Michael Sollins, Steve Storch, Benjamin Tober, Gregory D. Troxel

June 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 3

Publisher: IEEE Press

Full text available: pdf(133.28 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Keywords: data communications, internetworking, packet switching, routing

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8   <u>Simple, efficient routing schemes for all-optical networks</u>

Michele Flammini, Christian Scheideler

June 1997 **Proceedings of the ninth annual ACM symposium on Parallel algorithms and architectures SPAA '97**

Publisher: ACM Press

Full text available: pdf(1.18 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

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9   <u>An integration of network communication with workstation architecture</u>

Gregory G. Finn

October 1991 **ACM SIGCOMM Computer Communication Review**, Volume 21 Issue 5

Publisher: ACM Press

Full text available: pdf(771.35 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

A workstation may be thought of as a group of cooperatively connected subsystems. Point--to--point channels may be used to create a small--scale Gigabit LAN to which these subsystems are attached as nodes. The architectural focus of such a workstation shifts towards its internal LAN. An attractive attribute of this LAN is that its aggregate capacity scales linearly with the number of nodes attached to it.If the link--layer of the internal LAN is made equivalent to the link--layer of the external ...

10 Self-stabilizing topology maintenance protocols for high-speed networks

Hosame Abu-Amara, Brian A. Coan, Shlomi Dolev, Arkady Kanevsky, Jennifer L. Welch
December 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 6

Publisher: IEEE Press

Full text available: pdf(1.30 MB)   Additional Information: full citation, references, citings, index terms

11 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon
April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2

Publisher: IEEE Press

Full text available: pdf(154.32 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

12 Small forwarding tables for fast routing lookups

Mikael Degermark, Andrej Brodnik, Svante Carlsson, Stephen Pink
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

For some time, the networking community has assumed that it is impossible to do IP routing lookups in software fast enough to support gigabit speeds. IP routing lookups must find the routing entry with the *longest matching prefix*, a task that has been thought to require hardware support at lookup frequencies of millions per second.We present a forwarding table data structure designed for quick routing lookups. Forwarding tables are small enough to fit in the cache of a conventional genera ...

13 Design methodology for PicoRadio networks

J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright
March 2001 **Proceedings of the conference on Design, automation and test in Europe DATE '01**

Publisher: IEEE Press

Full text available: pdf(328.60 KB)   Additional Information: full citation, references, citings, index terms

14 Adaptive cache coherency for detecting migratory shared data

Alan L. Cox, Robert J. Fowler
May 1993 **ACM SIGARCH Computer Architecture News , Proceedings of the 20th annual international symposium on Computer architecture ISCA '93**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(1.22 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Parallel programs exhibit a small number of distinct data-sharing patterns. A common data-sharing pattern, migratory access, is characterized by exclusive read and write access by one processor at a time to a shared datum. We describe a family of adaptive cache coherency protocols that dynamically identify migratory shared data in order to reduce the cost of moving them. The protocols use a standard memory model and processor-cache interface. They do not require any compile-time or run-time ...

15 An efficient architecture model for systematic design of application-specific multiprocessor SoC

A. Baghdadi, D. Lyonnard, N. Zergainoh, A. Jerraya
March 2001 **Proceedings of the conference on Design, automation and test in Europe DATE '01**
Publisher: IEEE Press
Full text available: 📄 pdf(314.87 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

16 An efficient multicast protocol using de Bruijn structure for mobile computing

David S. L. Wei, Kshirasagar Naik
July 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(1.65 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

In this paper, we design a protocol to efficiently deliver multicast messages to mobile computers. The main concern in the design of such a protocol is to ensure that each message is delivered exactly once to each mobile host in a multicast group. However, the requirements of avoiding multiple delivery of a message, and of a host not missing a message are not easy to efficiently satisfy in a mobile environment. To satisfy these requirements, an earlier work had to actually broadcast a multicast ...

17 Fault tolerant distributed services

Allan D. Griefer, H. Raymond Strong
January 1988 **Proceedings of the seventh annual ACM Symposium on Principles of distributed computing PODC '88**
Publisher: ACM Press
Full text available: 📄 pdf(1.12 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

18 Design of an integrated services packet network

Jonathan S. Turner
September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.13 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The Integrated Services Digital Network (ISDN) has been proposed as a way of providing integrated voice and data communications services on a universal or near-universal basis. In this paper, I argue that the evolutionary approach inherent in current ISDN proposals is unlikely to provide an effective long term solution and advocate a more revolutionary approach, based on the use of advanced packet switching technology. The bulk of this paper is devoted to a detailed description of an Integr ...

19 Design of an ATM-FDDI gateway

Sanjay Kapoor, Gurudatta M. Parulkar
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the**

conference on Communications architecture & protocols SIGCOMM '91,
Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(962.57 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

20 <u>Communication synthesis for distributed embedded systems</u>
Ross B. Ortega, Gaetano Borriello
November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design ICCAD '98**
Publisher: ACM Press
Full text available: pdf(996.36 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: bus protocols, communication synthesis, distributed heterogeneous embedded systems, hardware/software co-synthesis, interprocessor communication, multihop communication

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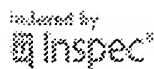
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   Murthy, S.; Garcia-Luna-Aceves, J.J.;
   INFOCOM '96. Fifteenth Annual Joint Conference of the IEEE Computer Societies. Networking the Next Generatior
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   Volume 3, 24-28 March 1996 Page(s):1028 - 1036 vol.3
   IEEE CNF

2. **The offset cube: a three-dimensional multicomputer network topology using through-wafer optics**
   Lacy, W.S.; Cruz-Rivera, J.L.; Wills, D.S.;
   Parallel and Distributed Systems, IEEE Transactions on
   Volume 9, Issue 9, Sept. 1998 Page(s):893 - 908
   IEEE JNL

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   Okajima, Y.; Cosoroaba, A.; Kobayashi, H.;
   ASIC/SOC Conference, 2000. Proceedings. 13th Annual IEEE International
   13-16 Sept. 2000 Page(s):37 - 39
   IEEE CNF

4. **An extended fiber-optic backplane for multiprocessors**
   Ramanan, A.V.; Jordan, H.F.; Sauer, J.R.; Blumenthal, D.J.;
   System Sciences, 1994. Vol. I: Architecture, Proceedings of the Twenty-Seventh Hawaii Internation Conference on
   Volume 1, 4-7 Jan. 1994 Page(s):462 - 470
   IEEE CNF

5. **Demonstration of a deflection routing 2×2 photonic switch for computer interconnects**
   Blumenthal, D.J.; Chen, K.Y.; Ma, J.; Feuerstein, R.J.; Sauer, J.R.;
   Photonics Technology Letters, IEEE
   Volume 4, Issue 2, Feb. 1992 Page(s):169 - 173
   IEEE JNL

6. **Deadlock detection in distributed systems**
   Datta, A.K.; Ghosh, S.;
   Computers and Communications, 1990. Conference Proceedings., Ninth Annual International Phoenix Conference
   21-23 March 1990 Page(s):131 - 136
   IEEE CNF